

Serial No. NOT YET ASSIGNED
Inventor: Field, Loren J. et al.
Title: Cardiomyocytes with Enhanced Proliferative
Potential, and Methods for Preparing and Using Same

Structure of the MHC-CYCD2 transgene.

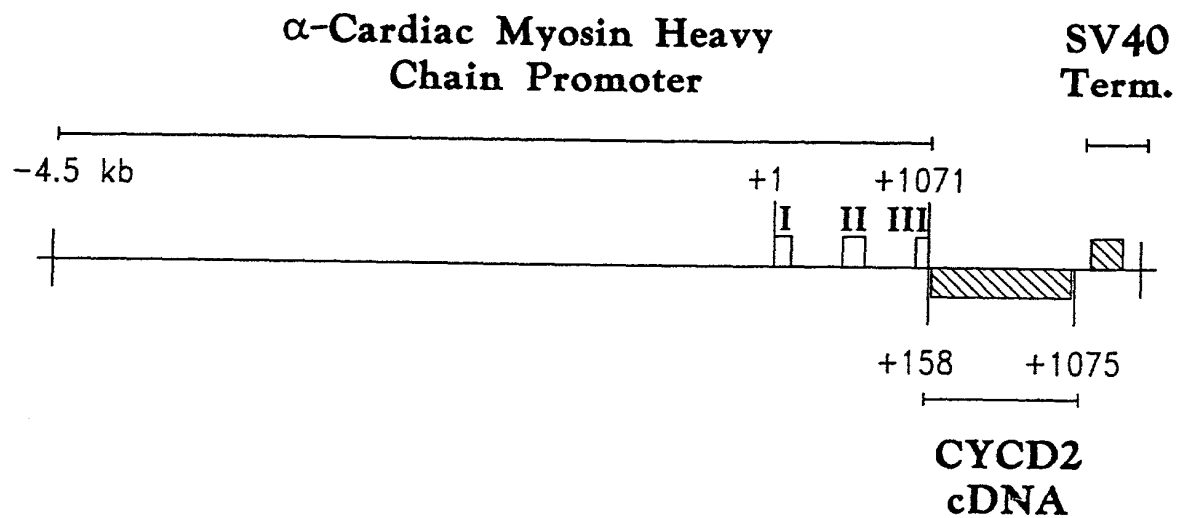


Fig. 1

Serial No. NOT YET ASSIGNED
Inventor: Field, Loren J. et al.
Title: Cardiomyocytes with Enhanced Proliferative
Potential, and Methods for Preparing and Using Same

Western blot analysis of cyclin D2
expression in MHC-CYCD2 transgenic hearts

- - 10 10 9 9 5 5 3 3



FIGURE 2

Serial No. NOT YET ASSIGNED
Inventor: Field, Loren J et al.
Title: Cardiomyocytes with Enhanced Proliferative
Potential, and Methods for Preparing and Using Same



FIGURE 3A

10024036 11301
T0024036 11301

Serial No. NOT YET ASSIGNED
Inventor: Field, Loren J. et al.
Title: Cardiomyocytes with Enhanced Proliferative
Potential, and Methods for Preparing and Using Same

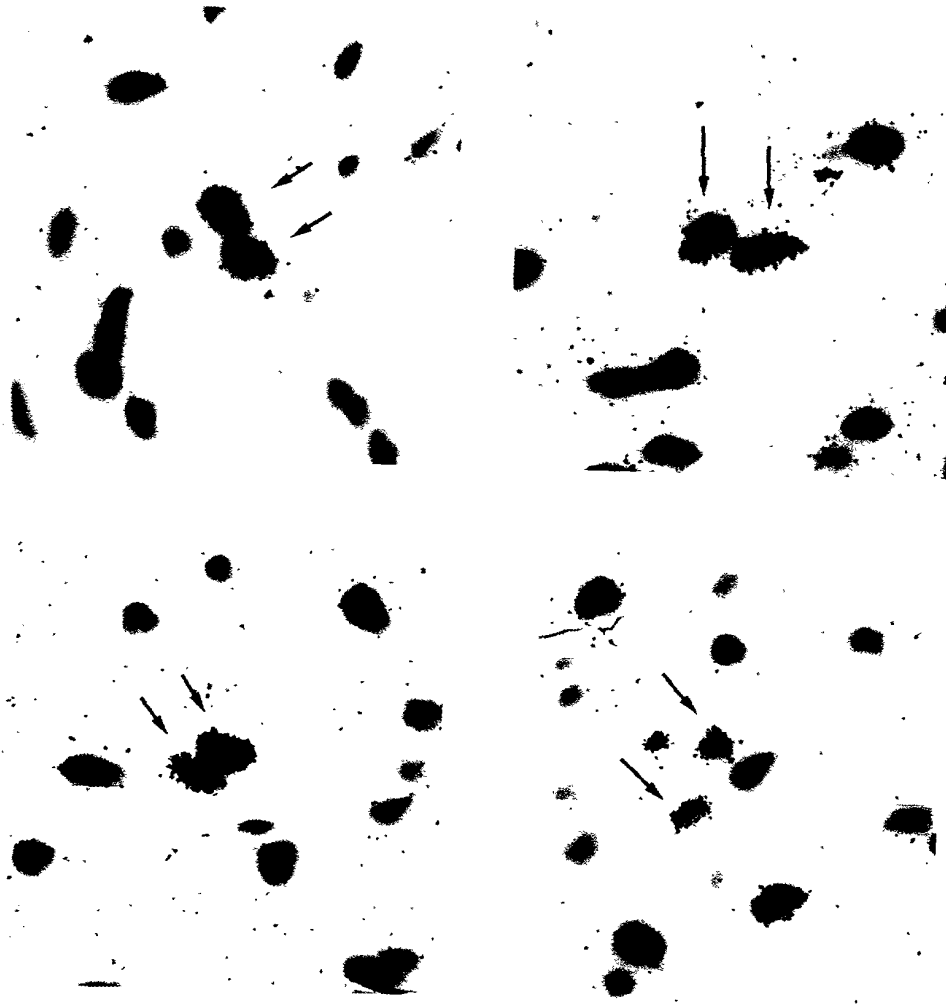


FIGURE 3B

Serial No. NOT YET ASSIGNED
Inventor: Field, Loren J. et al.
Title: Cardiomyocytes with Enhanced Proliferative
Potential, and Methods for Preparing and Using Same

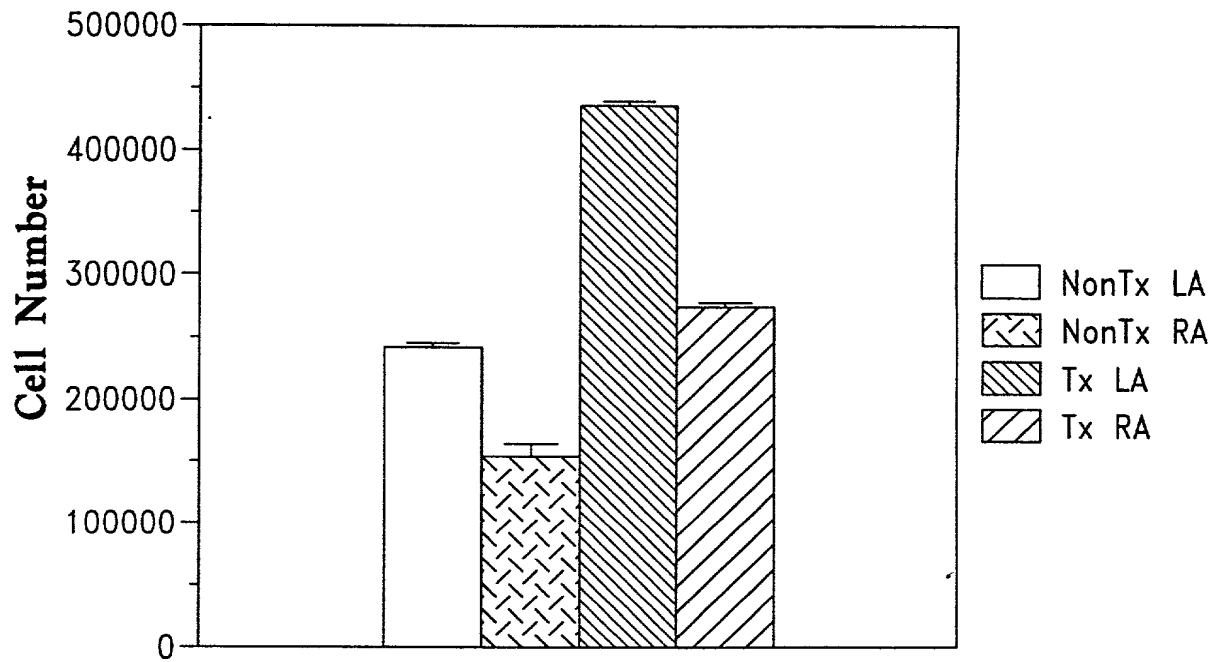


Fig. 4

Serial No. NOT YET ASSIGNED
Inventor: Field, Loren J. et al.
Title: Cardiomyocytes with Enhanced Proliferative
Potential, and Methods for Preparing and Using Same

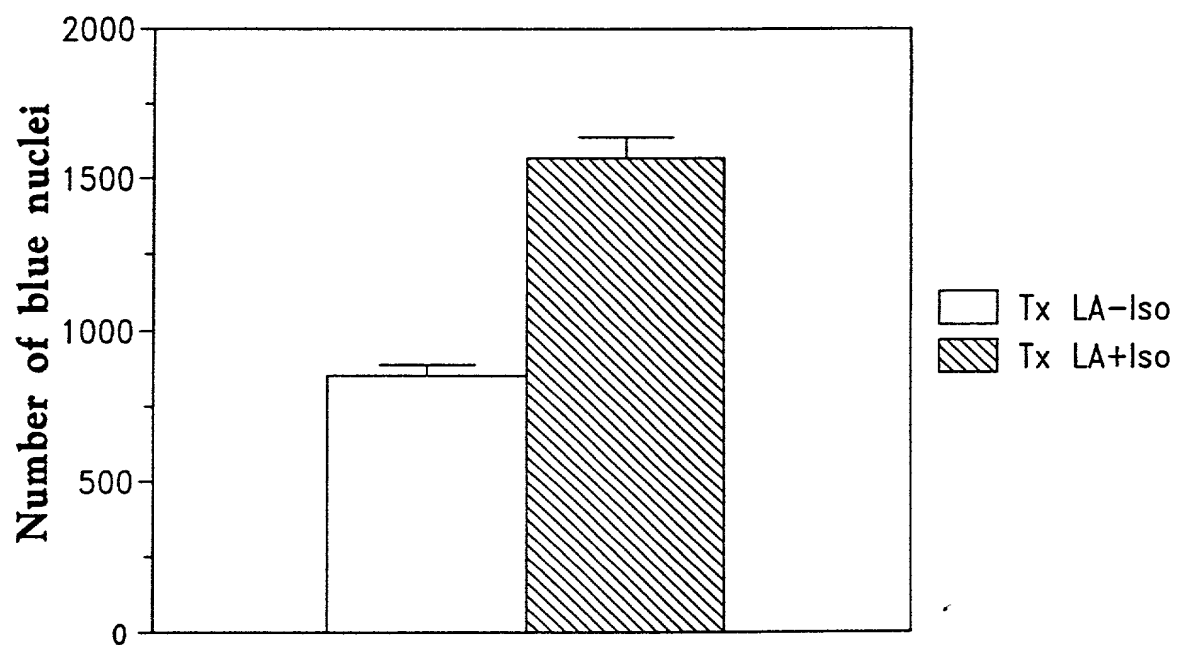


Fig. 5

Serial No. NOT YET ASSIGNED
Inventor: Field, Loren J. et al.
Title: Cardiomyocytes with Enhanced Proliferative
Potential, and Methods for Preparing and Using Same

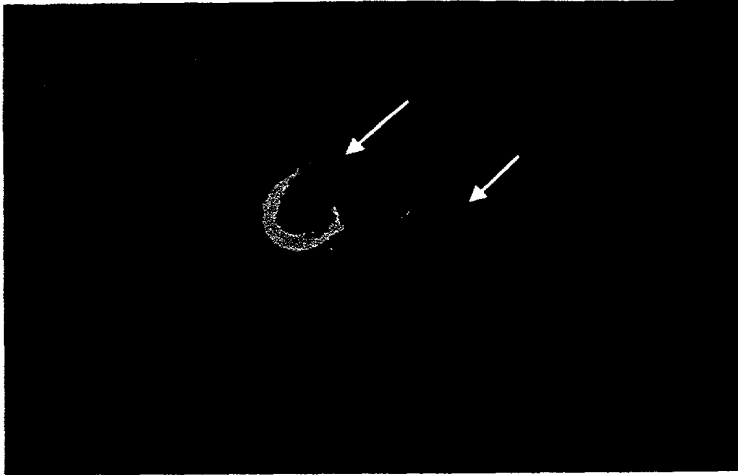


FIGURE 6A

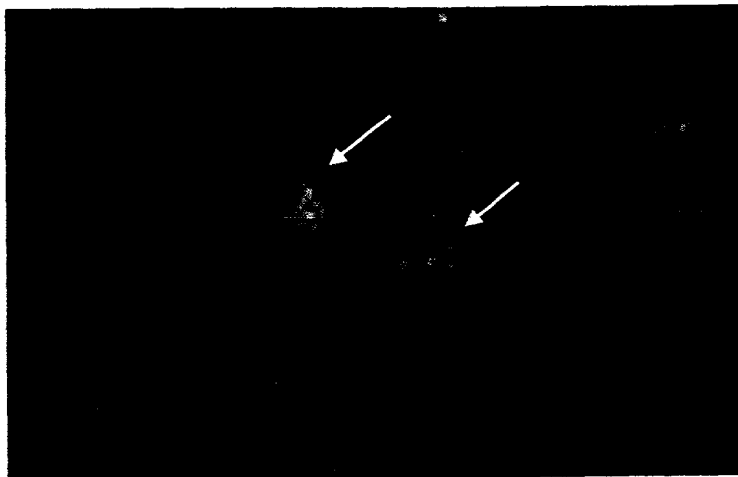
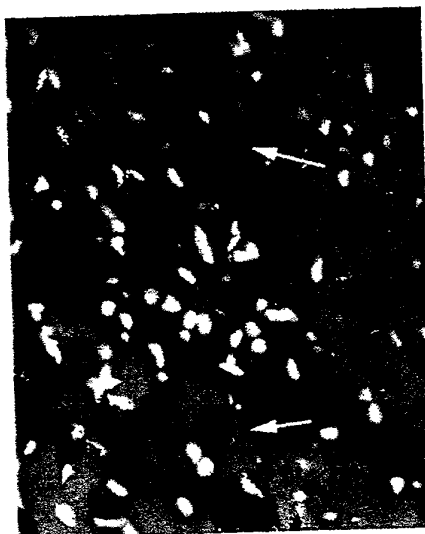
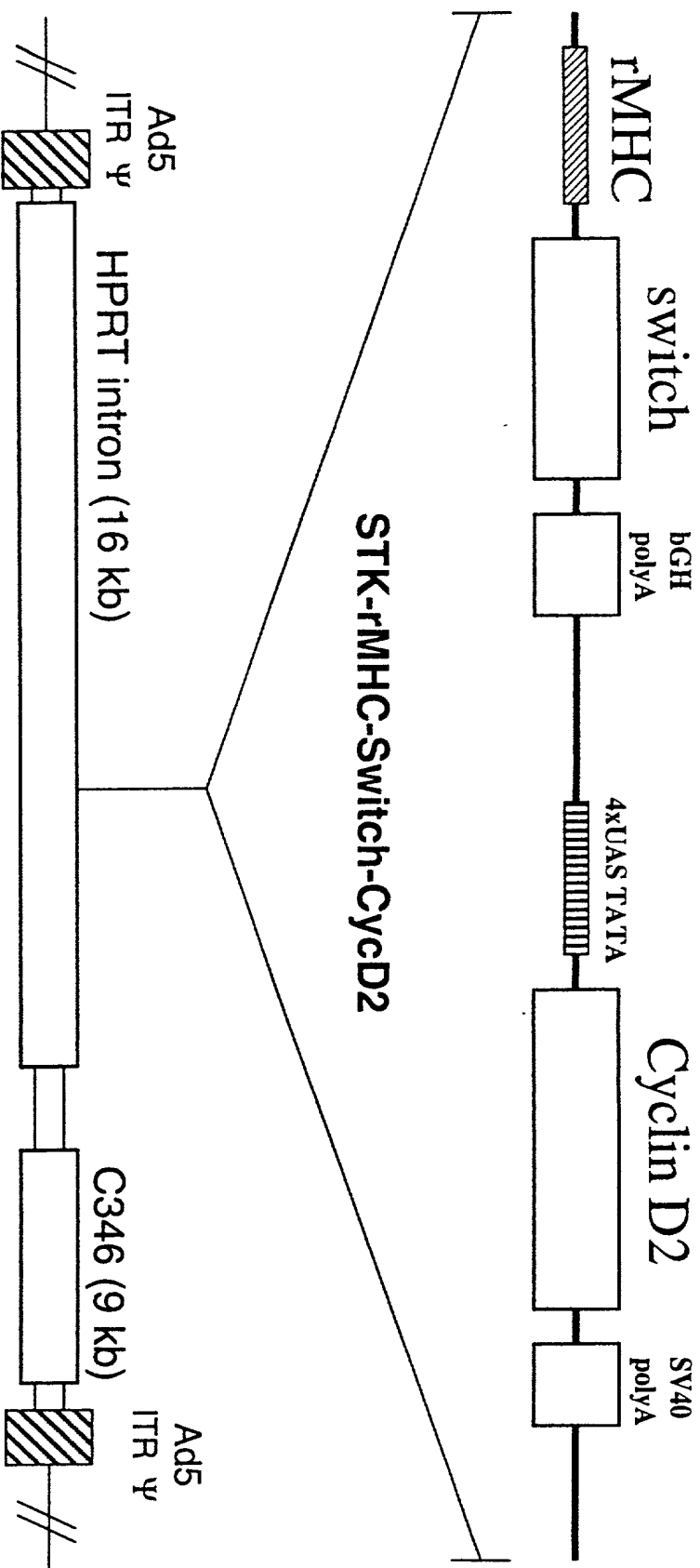


FIGURE 6B



FIGURE 7B





STK= third generation adenoviral vector

Ad5 ITR Ψ= Adenovirus type5 internal repeat

HPRT intron, C346= human stuffer region

rMHC= rat myosin heavy chain promoter

Switch= Gene Switch (gal4 DBD, PR-LBD, p65 activation domain)

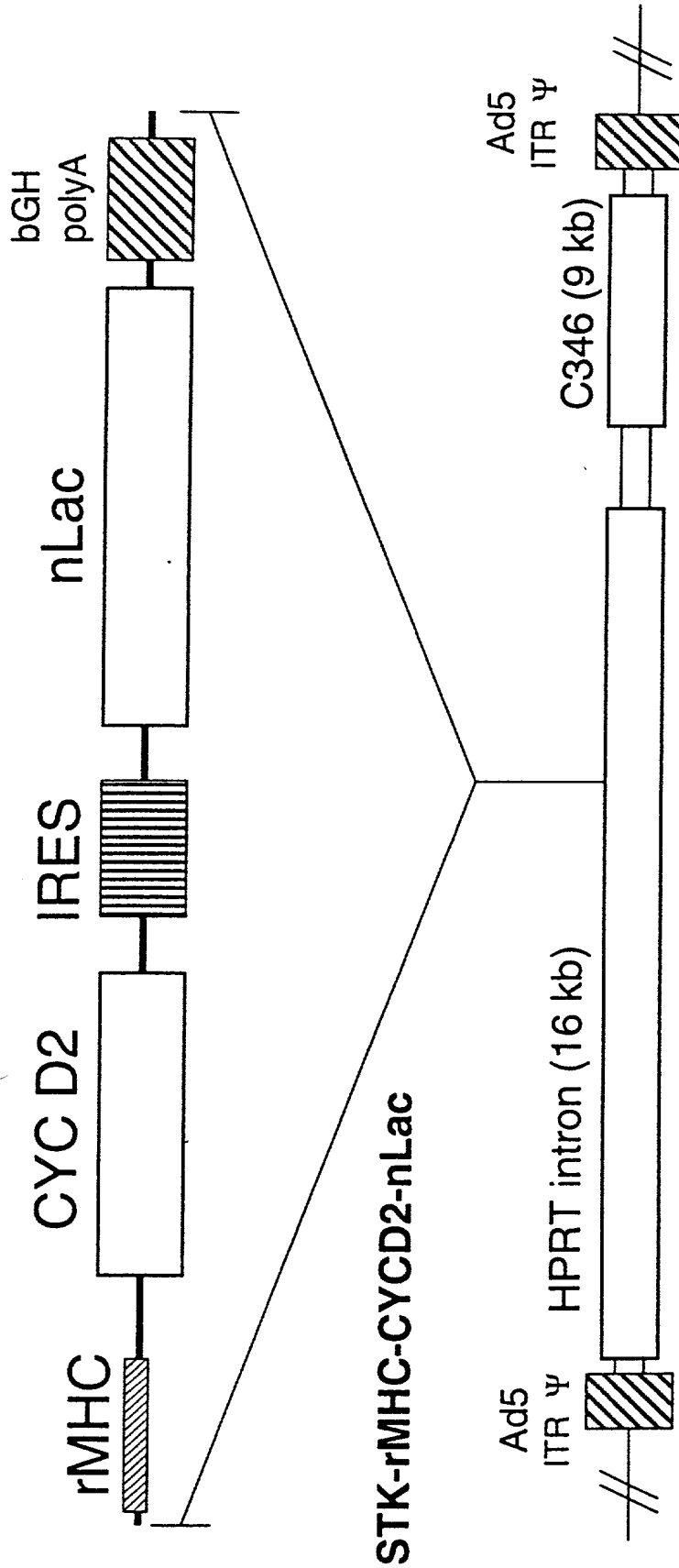
bGH polyA= bovine growth hormone poly adenylation signal

4xUAS TATA= TATA promoter linked to 4 GAL binding sequences

Cyclin D2

SV40 polyA= SV40 poly adenylation signal

FIGURE 8



STK= third generation adenoviral vector
 Ad5 ITR Ψ= Adenovirus type5 internal repeat
 HPRT intron, C346= human stuffer region
 rMHC= rat myosin heavy chain promoter
 IRES= internal ribosomal entry side
 bGH polyA= bovine growth hormone poly adenylation signal
 4xUAS TATA= TATA promoter linked to 4 GAL binding sequences
 CYCD2=Cyclin D2

FIGURE 9